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# Harmonization Mobility of Engineers in Asia and the Pacific





# Introduction

- “Mobility” - the movement of individuals or groups from place to place, job to job, or one social or economic level to another.
- “Harmonization” - Adjustment of differences and inconsistencies among different measurements, methods, procedures, schedules, specifications, or systems to make them uniform or mutually compatible
- Drivers – Globalization has driven the world economy growth exponentially and bringing the people closer
- Engineers – To stay relevant with the economy contribute to the national development and the profession

# Overview

- Existing regional engineering organization and mobility agreement frame work in Asia and the Pacific
- Harmonization of mobility agreement frame work among the engineering organizations and recognition by the government and the industries



A background image showing a group of diverse people, including men and women of various ethnicities, looking towards the camera with slight smiles. The image is slightly blurred and has a soft, warm tone.

# Regional Engineering Organization

- ASEAN Federation of Engineering Organization (AFEO)
- Federation of Engineering Institutions of Asia and the Pacific (FEIAP)
- Federation of Engineering Institutions of South and Central Asia (FEISCA)
- APEC Engineers\* (Committee of Asia-Pacific Economic Cooperation Human Resources Development Working Group)

A background image showing a group of diverse people, including a man and several women, looking towards the camera with various expressions, some smiling. The image is slightly faded and serves as a backdrop for the title.

# Regional Agreement

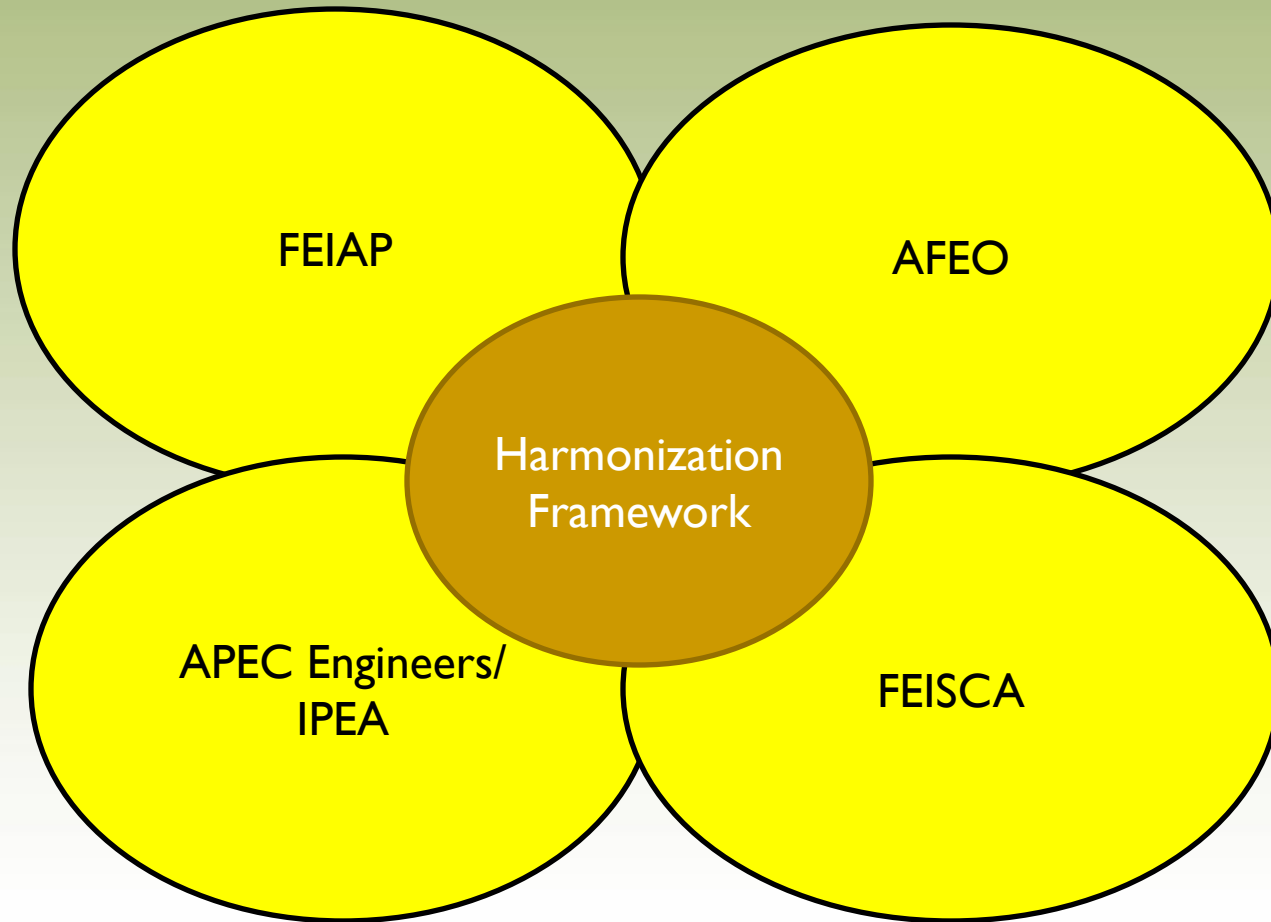
- Professional Competency
  - FEIAP Engineering Education Guidelines (2010)
  - Washington Accord (1989)
- Mobility
  - ASEAN Engineers Register (AFEO)(1998)
  - APEC Engineers Register (APEC) (2000)
  - ASEAN Chartered Professional Engineer (ASEAN MRA) (2007)
  - International Professional Engineers Agreement\* (IPEA formerly EMF)(2001)



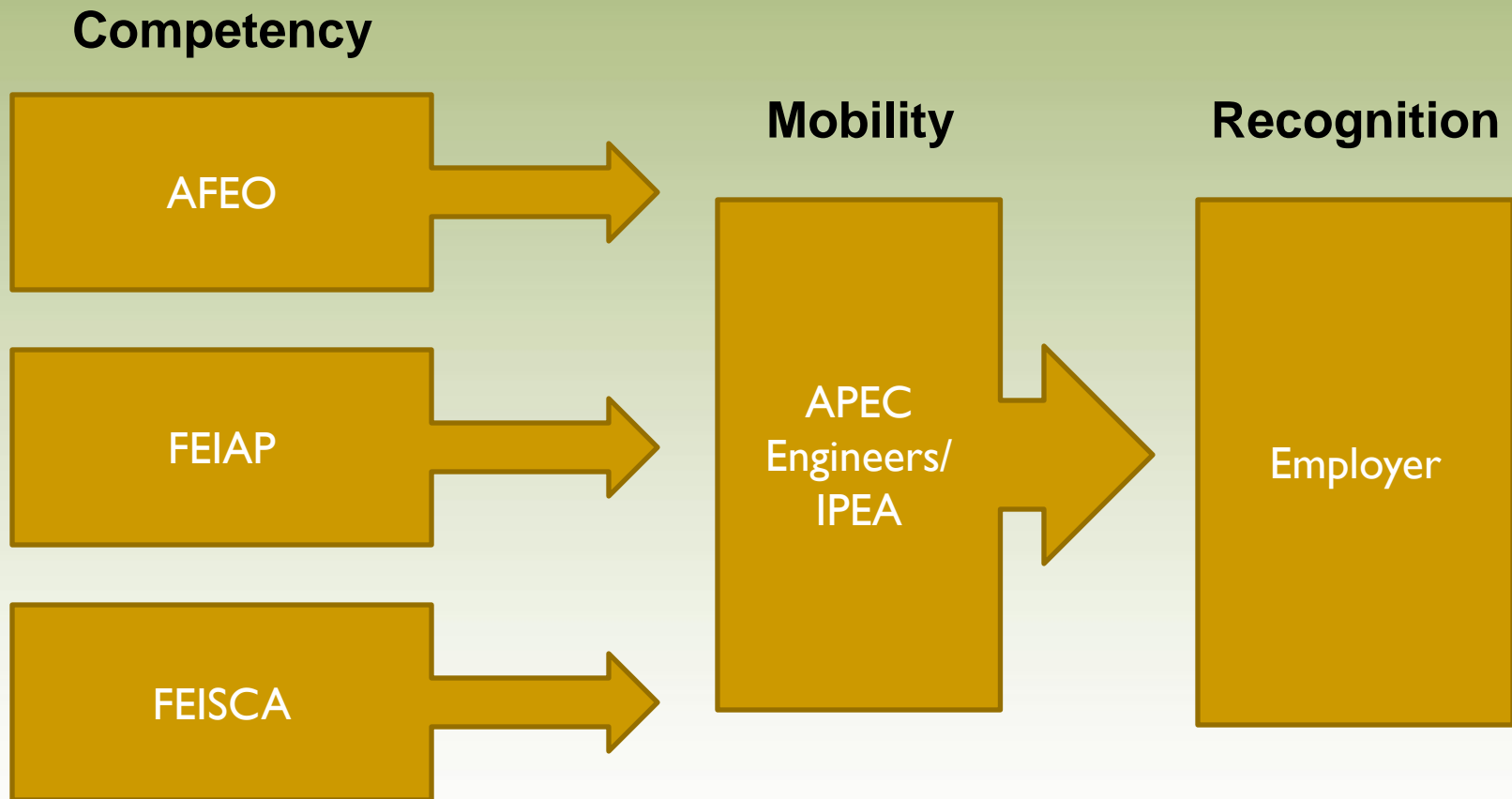
# “Harmonization”

- Benchmarking engineering education standard and professional competency
- Recognition by the professional communities, industries and government agencies
- Employers will have an standard to benchmark the qualification and experiences
- Continuing Professional Development provides consistency in maintaining professional competency
- Demand of various disciplines of engineers becoming critical due to economic development, disaster response and climate mitigation has become a global challenge

# Harmonization Framework



# Harmonization Framework





# Competency Profiles

- Comprehend and apply universal knowledge
- Comprehend and apply local knowledge
- Problem analysis
- Design and development of solutions
- Evaluation
- Protection of society
- Legal and regulatory
- Ethics
- Manage engineering activities
- Communication
- Lifelong learning
- Judgement
- Responsibility for decisions



# Mobility



- APEC Engineer agreement recognizing professional competence
  - (i) delivered and accredited in accordance with the best practice guidelines developed by FEIAP, or its predecessor, FEIEAP; or
  - (ii) an engineering degree accredited by an organization holding full membership of, and operating in accordance with the terms of, the Washington Accord;.....
- APEC Engineer assess engineers eligible for independent practice, who have gained a minimum of seven years experience since graduation, and spent at least two years in responsible charge of significant engineering work.

# Mobility



- IPEA agreement recognizing professional competency
  - for Authorized Membership of the Agreement, if the organization accrediting engineering degrees in a jurisdiction holds signatory status of the Washington Accord
  - For Provisional Membership of the Agreement, if the practitioners have engineering qualifications, which are covered by the following:
    - a. an engineering degree programme at the appropriate level
      - (i) delivered and accredited in accordance with the best practice guidelines developed by the Federation of Engineering Institutions of Asia and the Pacific; or
      - (ii) listed in the Index compiled by the Federation Européenne d'Associations Nationales d'Ingénieurs (FEANI); or .....
- Other criteria similar to APEC Engineer

# Recognition



- Professional standing “recognised” within the APEC region contributing to the globalisation of professional engineering services.
- Benefit to engineering firms that are providing services to other APEC economies
- Enhances employment opportunity and provide flexibility for engineers to work in the region
- Mobility has significant and positive effect on knowledge transfer and expediting the growth in economy of Asia and the Pacific

# Questions & Answers

